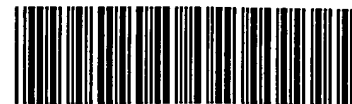# RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: ___10/532,198 A___

Source: ___JFWP___

Date Processed by STIC: ___08/04/2006___

# *ENTERED*

IFWP

RAW SEQUENCE LISTING                          DATE: 08/04/2006
PATENT APPLICATION:  US/10/532,198A          TIME: 12:43:10

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\08042006\J532198A.raw

```
   4 <110> APPLICANT: Sanchez, Alejandro
   5         Robb, Sofia
   7 <120> TITLE OF INVENTION: MANAGING BIOLOGICAL DATABASES
  10 <130> FILE REFERENCE: 21101.0049U2
  12 <140> CURRENT APPLICATION NUMBER: 10/532,198A
C--> 13 <141> CURRENT FILING DATE: 2005-04-21
  15 <150> PRIOR APPLICATION NUMBER: PCT/US2003/033590
  16 <151> PRIOR FILING DATE: 2003-10-22
  18 <150> PRIOR APPLICATION NUMBER: 60/420,216
  19 <151> PRIOR FILING DATE: 2002-10-22
  21 <160> NUMBER OF SEQ ID NOS: 9
  23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
  25 <210> SEQ ID NO: 1
  26 <211> LENGTH: 360
  27 <212> TYPE: DNA
  28 <213> ORGANISM: Artificial Sequence
  30 <220> FEATURE:
  31 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
  32         synthetic construct
  34 <220> FEATURE:
  35 <221> NAME/KEY: misc_feature
  36 <222> LOCATION: 169, 226
  37 <223> OTHER INFORMATION: n=a, t, c, or g
  39 <220> FEATURE:
  40 <221> NAME/KEY: misc_feature
  41 <222> LOCATION: 276
  42 <223> OTHER INFORMATION: n=a, t, c, or g
  44 <400> SEQUENCE: 1
  45 cttctgcaag gtccacagtt accattaaca aatcgagtcc tgcagtaaag gaatatgaaa      60
  46 tgagacaatc ctacaatttt tctggagcac ctatgggggg atcagttcaa attcatagca     120
W--> 47 atgtgtcttc tgctgtagag ggccgagaaa gagaaaagag agaaatgcna gatcttaatg     180
  48 aaaggctagc taattatatt gaaaaggtaa gatttctaga agctcnaaac aaaagattaa     240
  49 caaatgaatt gaatacgtta cgtgaaagat ggggtnaaga agctgaaagg atacgagctt     300
  50 tatatgagat tgaaatggat caattgaaaa agttattaga cgaagctgaa gctgctagat     360
  52 <210> SEQ ID NO: 2
  53 <211> LENGTH: 60
  54 <212> TYPE: PRT
  55 <213> ORGANISM: Artificial Sequence
  57 <220> FEATURE:
  58 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
  59         synthetic construct
  61 <220> FEATURE:
  62 <221> NAME/KEY: VARIANT
```

```
      63 <222> LOCATION: 2, 48
      64 <223> OTHER INFORMATION: Xaa = any amino acid
      66 <400> SEQUENCE: 2
W--> 67 Asn Xaa Ser Ser Pro Ala Val Lys Glu Tyr Glu Met Arg Gln Ser Tyr
      68  1               5                  10                  15
      69 Asn Phe Ser Gly Ala Pro Met Gly Gly Ser Val Gln Ile His Ser Asn
      70              20                  25                  30
      71 Val Ser Ser Ala Val Glu Gly Arg Glu Arg Glu Lys Arg Glu Met Xaa
      72          35                  40                  45
      73 Asp Leu Asn Glu Arg Leu Ala Asn Tyr Ile Glu Lys
      74      50                  55                  60
      76 <210> SEQ ID NO: 3
      77 <211> LENGTH: 60
      78 <212> TYPE: PRT
      79 <213> ORGANISM: Artificial Sequence
      81 <220> FEATURE:
      82 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
      83      synthetic construct
      85 <220> FEATURE:
      86 <221> NAME/KEY: VARIANT
      87 <222> LOCATION: 2-10, 13, 14, 17, 18, 20, 21, 23-25, 27-29, 32, 34-38, 42,
45, 47-49, 52,
      88      54, 59
      89 <223> OTHER INFORMATION: Xaa = any amino acid
      91 <400> SEQUENCE: 3
W--> 92 Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Met Xaa Xaa Ser Tyr
      93  1               5                  10                  15
      94 Xaa Xaa Ser Xaa Xaa Pro Xaa Xaa Xaa Ser Xaa Xaa Xaa His Ser Xaa
      95              20                  25                  30
      96 Val Xaa Xaa Xaa Xaa Xaa Gly Arg Glu Xaa Glu Lys Xaa Glu Xaa Xaa
      97          35                  40                  45
      98 Xaa Leu Asn Xaa Arg Xaa Ala Asn Tyr Ile Xaa Lys
      99      50                  55                  60
     101 <210> SEQ ID NO: 4
     102 <211> LENGTH: 60
     103 <212> TYPE: PRT
     104 <213> ORGANISM: Artificial Sequence
     106 <220> FEATURE:
     107 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
     108      synthetic construct
     110 <400> SEQUENCE: 4
     111 Asn Gln Asn Ala Ser Ser Ile Arg Thr Ile Glu Met Lys Lys Ser Tyr
     112  1               5                  10                  15
     113 Gly Val Ser Ala Thr Pro Gly Ala Thr Ser Asn Ile Val His Ser Gly
     114              20                  25                  30
     115 Val Asn Asn Leu Met Asn Gly Arg Glu Lys Glu Lys Asn Glu Leu Gln
     116          35                  40                  45
     117 Glu Leu Asn Asp Arg Phe Ala Asn Tyr Ile Asp Lys
     118      50                  55                  60
     120 <210> SEQ ID NO: 5
```

```
     121 <211> LENGTH: 60
     122 <212> TYPE: PRT
     123 <213> ORGANISM: Artificial Sequence
     125 <220> FEATURE:
     126 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
     127       synthetic construct
     129 <220> FEATURE:
     130 <221> NAME/KEY: VARIANT
     131 <222> LOCATION: 7, 24
     132 <223> OTHER INFORMATION: Xaa = any amino acid
     134 <400> SEQUENCE: 5
W--> 135 Val Arg Phe Leu Glu Ala Xaa Asn Lys Arg Leu Thr Asn Glu Leu Asn
     136 1               5                   10                  15
     137 Thr Leu Arg Glu Arg Trp Gly Xaa Glu Ala Glu Arg Ile Arg Ala Leu
     138             20                  25                  30
     139 Tyr Glu Ile Glu Met Asp Gln Leu Lys Lys Leu Leu Asp Glu Ala Phe
     140         35                  40                  45
     141 Ala Ala Arg Ser Glu Leu Leu Pro Lys Ile Asn Lys
     142     50                  55              60
     144 <210> SEQ ID NO: 6
     145 <211> LENGTH: 60
     146 <212> TYPE: PRT
     147 <213> ORGANISM: Artificial Sequence
     149 <220> FEATURE:
     150 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
     151       synthetic construct
     153 <220> FEATURE:
     154 <221> NAME/KEY: VARIANT
     155 <222> LOCATION: 3, 6-7, 13, 17, 19-21, 24, 26-27, 30, 34-36, 38, 41-43,
     156       46, 50-53, 55-56, 60
     157 <223> OTHER INFORMATION: Xaa = any amino acid
     159 <400> SEQUENCE: 6
W--> 160 Val Arg Xaa Leu Glu Xaa Xaa Asn Lys Arg Leu Thr Xaa Glu Leu Asn
     161 1               5                   10                  15
     162 Xaa Leu Xaa Xaa Xaa Trp Gly Xaa Glu Xaa Xaa Arg Ile Xaa Ala Leu
     163             20                  25                  30
     164 Tyr Xaa Xaa Xaa Met Xaa Gln Leu Xaa Xaa Xaa Leu Asp Xaa Ala Glu
     165         35                  40                  45
     166 Ala Xaa Xaa Xaa Xaa Leu Xaa Xaa Lys Ile Asn Xaa
     167     50                  55              60
     169 <210> SEQ ID NO: 7
     170 <211> LENGTH: 60
     171 <212> TYPE: PRT
     172 <213> ORGANISM: Artificial Sequence
     174 <220> FEATURE:
     175 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
     176       synthetic construct
     178 <400> SEQUENCE: 7
     179 Val Arg Ser Leu Glu Asp Glu Asn Lys Arg Leu Thr Asp Glu Leu Asn
```

```
180  1               5                 10                15
181 Asp Leu Lys Asp Gln Trp Gly Asn Glu Thr Ala Arg Ile Lys Ala Leu
182             20                 25                 30
183 Tyr Asp Ser Asp Met Ser Gln Leu Arg Arg Ser Leu Asp Gln Ala Glu
184         35                 40                 45
185 Ala Ser Lys Ala Gln Leu Glu Met Lys Ile Asn Thr
186     50                 55                 60
188 <210> SEQ ID NO: 8
189 <211> LENGTH: 60
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
195      synthetic construct
197 <400> SEQUENCE: 8
198 cttctgcaag gtccacagtt accattaaca aatcgagtcc tgcagtaaag gaatatgaaa    60
200 <210> SEQ ID NO: 9
201 <211> LENGTH: 60
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence:/ note =
207      synthetic construct
209 <400> SEQUENCE: 9
210 tgagacaatc ctacaatttt tctggagcac ctatgggggg atcagttcaa attcatagca    60
```

RAW SEQUENCE LISTING ERROR SUMMARY     DATE: 08/04/2006
PATENT APPLICATION:  US/10/532,198A     TIME: 12:43:11

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08042006\J532198A.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the
<220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 169,226,276
Seq#:2; Xaa Pos. 2,48
Seq#:3; Xaa Pos. 2,3,4,5,6,7,8,9,10,13,14,17,18,20,21,23,24,25,27,28,29,32
Seq#:3; Xaa Pos. 34,35,36,37,38,42,45,47,48,49,52,54,59
Seq#:5; Xaa Pos. 7,24
Seq#:6; Xaa Pos. 3,6,7,13,17,19,20,21,24,26,27,30,34,35,36,38,41,42,43,46
Seq#:6; Xaa Pos. 50,51,52,53,55,56,60

<u>Invalid Line Length:</u>
The rules require that a line not exceed 72 characters in length. This includes
spaces.

Seq#:3; Line(s) 87

**VERIFICATION SUMMARY**　　　　　　　　DATE: 08/04/2006
PATENT APPLICATION:　**US/10/532,198A**　　TIME: 12:43:11

Input Set : **A:\PTO.KD.txt**
Output Set: **N:\CRF4\08042006\J532198A.raw**

```
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120
M:341 Repeated in SeqNo=1
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
```